



Blue Grass Energy

A Touchstone Energy Cooperative 

Making life better, the cooperative way

Electric Distribution Utility Annual Reliability Report For 2021

April 2022

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	Blue Grass Energy
REPORT PREPARED BY	Kyle Lancaster
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PHONE NUMBER OF PREPARER	(859) 885-2103

SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT	2021
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SECTION 3: MAJOR EVENT DAYS (MED)

T_{MED}	12.17
FIRST DATE USED TO DETERMINE T_{MED}	January 1 2016
LAST DATE USED TO DETERMINE T_{MED}	December 31 2020
NUMBER OF MED IN REPORT YEAR	3

NOTE: Per IEEE 1366 T_{MED} should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

System-wide Information

TOTAL CUSTOMERS	59749	TOTAL CIRCUITS	139
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Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	130.31	SAIDI	166.5
SAIFI	1.1003	SAIFI	1.3293

Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	244.93	SAIDI	253.17
SAIFI	1.3789	SAIFI	1.4884

Notes:

- 1) All duration indices (SAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of May of each year
- 3) Reports cover the calendar year ending in the December before the reports are due.
- 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, and T_{MED}

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SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
3. CIRCUIT NAME AND NUMBER
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
5. TOTAL CIRCUIT LENGTH (MILES)
6. CUSTOMER COUNT FOR THIS CIRCUIT
7. DATE OF LAST CIRCUIT TRIM (VM)
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
10. REPORTING YEAR (SAIDI)
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
12. REPORTING YEAR (SAIFI)
13. CORRECTIVE ACTION PLAN

REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI

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SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed.

Vegetation Management Plan Attached in Word Document.

SECTION 7: UTILITY COMMENTS

Substation Name and Number	3M #2	41
Substation Location	Hwy 982, Cynthiana, KY 41031	
Circuit Name and Number	3M #2	124
Circuit Location	Industrial Park	
Total Circuit Length (Miles)	51.8	
2021 Member Count	399	
5 Year Average Member Count	388	
Date of Last Trim	2018	
Date of Next Trim	2024	

	5 Year Average		2021	
	SAIDI	SAIFI	SAIDI	SAIFI
	90.72702872	0.69223068	91.62907268	0.473684211

Total Minutes/Frequency	176151.00	1344.0000	36560.00	189.0000
Equipment Fault	26.48%	30.06%	0.33%	0.53%
Wind	1.08%	1.12%	0.00%	0.00%
Small Animal	6.57%	6.62%	10.85%	21.16%
Squirrel	0.05%	0.15%	0.13%	0.53%
Unknown Cause	0.22%	0.60%	1.07%	4.23%
Deterioration	29.41%	19.57%	0.00%	0.00%
Scheduled	3.15%	13.32%	0.88%	7.41%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	3.10%	4.17%	3.75%	7.41%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.59%	1.26%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	22.04%	11.24%	77.26%	46.56%
Tree - Non ROW	2.91%	4.61%	5.72%	12.17%
Large Animal	4.38%	7.29%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

41-154

Substation Name and Number 3M #2 41
 Substation Location Hwy 982, Cynthiana, KY 41032
 Circuit Name and Number 3M #2 154
 Circuit Location Paris
 Total Circuit Length (Miles) 53.8
 2021 Member Count 538
 5 Year Average Member Count 524
 Date of Last Trim 2016
 Date of Next Trim 2022

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
145.1387917	1.200949464	415.7416357	2.20260223

Total Minutes/Frequency	379963.00	3144.0000	223669.00	1185.0000
Equipment Fault	7.59%	8.81%	5.63%	9.11%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	0.96%	1.65%	0.23%	0.68%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	12.51%	5.34%	20.92%	13.67%
Deterioration	1.19%	0.95%	0.11%	0.17%
Scheduled	3.28%	19.69%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.06%	0.06%	0.00%	0.00%
Public Accident	1.26%	1.72%	0.29%	0.51%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	35.80%	21.69%	57.13%	54.01%
Lightning	5.69%	7.57%	0.36%	0.93%
Tree - Non ROW	31.66%	32.51%	15.34%	20.93%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:
 Circuit to be trimmed in 2022.

Substation Name and Number	CLAY_LICK	26
Substation Location	5627 Louisville, Rd., Salvisa, KY	40372
Circuit Name and Number	CLAY_LICK	134
Circuit Location	Lillard's Ferry/Scotts Ferry	
Total Circuit Length (Miles)	54.7	
2021 Member Count	375	
5 Year Average Member Count	368	
Date of Last Trim	2016	
Date of Next Trim	2023	

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
375.3858888	1.943117038	446.3066667	1.845333333

Total Minutes/Frequency	691418.00	3579.0000	167365.00	692.0000
Equipment Fault	4.75%	10.98%	18.52%	55.20%
Wind	18.56%	13.24%	0.00%	0.00%
Small Animal	1.12%	3.46%	0.05%	0.14%
Squirrel	0.02%	0.08%	0.03%	0.14%
Unknown Cause	0.01%	0.03%	0.00%	0.00%
Deterioration	0.06%	0.17%	0.00%	0.00%
Scheduled	1.67%	2.54%	0.40%	0.58%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.02%	0.06%	0.00%	0.00%
Public Accident	0.45%	1.73%	0.00%	0.00%
Ice/Snow	3.96%	3.49%	0.08%	0.43%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	11.69%	20.51%	2.38%	3.61%
Lightning	3.96%	3.27%	4.01%	6.36%
Tree - Non ROW	53.72%	40.43%	74.54%	33.53%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number COLEMANSVILLE 32
 Substation Location Corner of HWY 1032 & 1054, Berry, KY 41006
 Circuit Name and Number COLEMANSVILLE 134
 Circuit Location Renaker
 Total Circuit Length (Miles) 78.9
 2021 Member Count 503
 5 Year Average Member Count 491
 Date of Last Trim 2018
 Date of Next Trim 2024

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
126.7578045	0.890645469	234.5705765	1.514910537

Total Minutes/Frequency	310972.00	2185.0000	117989.00	762.0000
Equipment Fault	5.36%	6.45%	0.02%	0.13%
Wind	1.35%	1.05%	0.00%	0.00%
Small Animal	2.32%	3.94%	2.05%	3.94%
Squirrel	0.02%	0.05%	0.05%	0.13%
Unknown Cause	0.82%	0.64%	0.00%	0.00%
Deterioration	2.18%	1.24%	0.39%	0.52%
Scheduled	14.66%	23.16%	38.44%	66.14%
Power Supplier	0.47%	22.43%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	6.68%	4.07%	17.60%	11.68%
Public Accident	4.47%	4.35%	0.00%	0.00%
Ice/Snow	6.41%	3.11%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	33.56%	16.61%	0.00%	0.00%
Tree - Non ROW	21.70%	12.91%	41.44%	17.45%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Scheduled outages. No corrections necessary at this time.

13-114

Substation Name and Number CROOKSVILLE 13
 Substation Location 765 Crooksville Rd., Richmond, KY 40475
 Circuit Name and Number CROOKSVILLE 114
 Circuit Location Speedwell
 Total Circuit Length (Miles) 69.3
 2021 Member Count 652
 5 Year Average Member Count 639
 Date of Last Trim 2021
 Date of Next Trim 2027

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
158.9284224	1.335419793	367.1242331	3.113496933

Total Minutes/Frequency	507459.00	4264.0000	239365.00	2030.0000
Equipment Fault	2.88%	4.03%	4.03%	5.96%
Wind	4.28%	5.25%	0.00%	0.00%
Small Animal	8.03%	11.87%	1.11%	1.63%
Squirrel	0.36%	0.70%	0.00%	0.00%
Unknown Cause	7.09%	11.09%	8.86%	12.91%
Deterioration	0.38%	0.33%	0.00%	0.00%
Scheduled	7.00%	7.06%	14.21%	13.94%
Power Supplier	11.40%	15.24%	24.17%	32.02%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	9.61%	8.91%	19.04%	15.96%
Ice/Snow	3.71%	1.48%	0.31%	0.20%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	7.52%	8.18%	10.41%	10.54%
Lightning	21.21%	17.40%	0.00%	0.00%
Tree - Non ROW	16.29%	8.14%	17.85%	6.85%
Large Animal	0.24%	0.30%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier and Public Accident caused outages. No corrections necessary at this time.

Substation Name and Number CROOKSVILLE 13
 Substation Location 765 Crooksville Rd., Richmond, KY 40475
 Circuit Name and Number CROOKSVILLE 124
 Circuit Location Ogg Lane
 Total Circuit Length (Miles) 54.2
 2021 Member Count 713
 5 Year Average Member Count 698
 Date of Last Trim 2021
 Date of Next Trim 2027

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
83.04724441	0.750629624	185.1528752	1.827489481

Total Minutes/Frequency	289979.00	2621.0000	132014.00	1303.0000
Equipment Fault	2.27%	1.45%	0.07%	0.08%
Wind	3.76%	2.02%	0.00%	0.00%
Small Animal	14.33%	14.65%	5.18%	6.29%
Squirrel	0.08%	0.15%	0.00%	0.00%
Unknown Cause	3.99%	5.53%	2.61%	3.68%
Deterioration	0.01%	0.04%	0.00%	0.00%
Scheduled	0.57%	0.50%	1.17%	0.69%
Power Supplier	21.79%	27.09%	47.87%	54.49%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	5.07%	6.52%	0.26%	0.15%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	6.80%	10.64%	3.52%	3.15%
Lightning	3.10%	3.47%	5.88%	5.07%
Tree - Non ROW	38.17%	27.70%	33.41%	26.25%
Large Animal	0.06%	0.23%	0.04%	0.15%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number CROOKSVILLE 13
 Substation Location 765 Crooksville Rd., Richmond, KY 40475
 Circuit Name and Number CROOKSVILLE 144
 Circuit Location Crooksville Rd
 Total Circuit Length (Miles) 16.2
 2021 Member Count 377
 5 Year Average Member Count 369
 Date of Last Trim 2019
 Date of Next Trim 2025

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
86.45526457	0.73824874	226.7824934	1.376657825

Total Minutes/Frequency	159619.00	1363.0000	85497.00	519.0000
Equipment Fault	0.06%	0.07%	0.11%	0.19%
Wind	0.09%	0.15%	0.00%	0.00%
Small Animal	11.77%	22.89%	0.79%	2.50%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	4.39%	6.38%	6.18%	8.48%
Deterioration	0.08%	0.15%	0.14%	0.39%
Scheduled	0.15%	0.66%	0.00%	0.00%
Power Supplier	20.91%	27.51%	39.04%	72.25%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	1.55%	3.08%	0.00%	0.00%
Public Accident	0.41%	0.37%	0.68%	0.58%
Ice/Snow	0.40%	0.22%	0.60%	0.39%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	12.75%	14.82%	0.05%	0.19%
Lightning	0.37%	0.51%	0.00%	0.00%
Tree - Non ROW	47.07%	23.18%	52.41%	15.03%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number DAVIS 4
 Substation Location 3876 Delong Rd., Lexington, KY 40515
 Circuit Name and Number DAVIS 144
 Circuit Location Tates Creek Estates
 Total Circuit Length (Miles) 5.1
 2021 Member Count 309
 5 Year Average Member Count 301
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
128.2125557	1.647689128	188.9255663	2.527508091

Total Minutes/Frequency	192822.00	2478.0000	58378.00	781.0000
Equipment Fault	16.71%	12.83%	0.55%	0.51%
Wind	9.40%	9.97%	12.85%	8.58%
Small Animal	19.67%	25.83%	11.77%	12.42%
Squirrel	0.08%	0.08%	0.00%	0.00%
Unknown Cause	4.48%	4.64%	14.40%	13.32%
Deterioration	1.91%	1.53%	0.00%	0.00%
Scheduled	1.70%	2.95%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.12%	0.20%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	10.43%	16.46%	21.30%	39.18%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.22%	0.28%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	20.97%	13.72%	13.19%	6.27%
Lightning	7.78%	6.58%	24.74%	19.21%
Tree - Non ROW	6.51%	4.92%	1.21%	0.51%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Public Accident and Storm related outages. No corrections necessary at this time.

36-104

Substation Name and Number HEADQUARTERS 36
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 104
 Circuit Location US 68
 Total Circuit Length (Miles) 9.9
 2021 Member Count 70
 5 Year Average Member Count 68
 Date of Last Trim 2016
 Date of Next Trim 2022

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
32.55088803	0.3403861	35.98571429	0.414285714

Total Minutes/Frequency	11093.00	116.0000	2519.00	29.0000
Equipment Fault	6.27%	6.90%	10.48%	6.90%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	26.76%	36.21%	12.35%	20.69%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	11.49%	16.38%	43.91%	48.28%
Lightning	53.66%	39.66%	25.25%	20.69%
Tree - Non ROW	1.82%	0.86%	8.02%	3.45%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Circuit to be trimmed in 2022.

36-114

Substation Name and Number HEADQUARTERS 36
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 114
 Circuit Location Arthur Road
 Total Circuit Length (Miles) 29.7
 2021 Member Count 162
 5 Year Average Member Count 158
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
350.4583917	1.691424758	457.7283951	2.901234568

Total Minutes/Frequency	276401.00	1334.0000	74152.00	470.0000
Equipment Fault	18.99%	21.81%	6.37%	6.38%
Wind	42.25%	20.16%	16.37%	12.55%
Small Animal	1.43%	4.42%	3.99%	8.30%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.10%	0.22%	0.00%	0.00%
Deterioration	15.75%	20.84%	21.06%	12.55%
Scheduled	7.10%	9.00%	26.41%	25.32%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.81%	1.50%	2.56%	4.04%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.13%	0.30%	0.00%	0.00%
Tree - ROW	0.82%	1.50%	3.05%	4.26%
Lightning	2.78%	5.40%	0.00%	0.00%
Tree - Non ROW	8.27%	13.42%	14.29%	22.55%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	1.58%	1.42%	5.89%	4.04%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Scheduled outages. No corrections necessary at this time.

Substation Name and Number HEADQUARTERS 36
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 124
 Circuit Location Colville
 Total Circuit Length (Miles) 30.0
 2021 Member Count 185
 5 Year Average Member Count 180
 Date of Last Trim 2016
 Date of Next Trim 2023

	5 Year Average		2021	
	SAIDI	SAIFI	SAIDI	SAIFI
	112.0492038	1.053674215	305.2540541	2.016216216

Total Minutes/Frequency	100918.00	949.0000	56472.00	373.0000
Equipment Fault	45.09%	31.61%	63.31%	49.87%
Wind	18.36%	27.08%	2.52%	1.88%
Small Animal	2.09%	4.74%	0.54%	1.34%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.54%	1.05%	0.52%	1.07%
Deterioration	0.14%	0.21%	0.00%	0.00%
Scheduled	6.28%	17.18%	1.82%	26.54%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.17%	0.21%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.39%	0.95%	0.00%	0.00%
Ice/Snow	1.02%	0.32%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.38%	0.32%	0.45%	0.54%
Lightning	18.98%	9.17%	30.84%	18.77%
Tree - Non ROW	5.56%	7.17%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number HEADQUARTERS 36
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 134
 Circuit Location Morning Glory
 Total Circuit Length (Miles) 64.0
 2021 Member Count 389
 5 Year Average Member Count 379
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
107.7649691	0.893434308	122.0205656	0.997429306

Total Minutes/Frequency	204087.00	1692.0000	47466.00	388.0000
Equipment Fault	5.36%	6.03%	0.79%	1.03%
Wind	18.51%	22.93%	0.86%	0.77%
Small Animal	10.11%	12.47%	10.23%	16.75%
Squirrel	0.03%	0.06%	0.15%	0.26%
Unknown Cause	1.95%	2.07%	0.12%	0.26%
Deterioration	1.36%	1.77%	0.67%	0.26%
Scheduled	1.31%	5.26%	3.05%	18.56%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	2.32%	2.25%	1.04%	1.29%
Lightning	9.78%	9.93%	20.61%	8.76%
Tree - Non ROW	49.27%	37.23%	62.47%	52.06%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number HEADQUARTERS 36
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 144
 Circuit Location Kentontown
 Total Circuit Length (Miles) 121.5
 2021 Member Count 752
 5 Year Average Member Count 732
 Date of Last Trim 2019
 Date of Next Trim 2025

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
432.1593157	2.980563542	929.4069149	6.109042553

Total Minutes/Frequency	1582158.00	10912.0000	698914.00	4594.0000
Equipment Fault	37.78%	34.41%	50.24%	33.94%
Wind	14.29%	15.44%	29.77%	32.56%
Small Animal	3.23%	5.10%	0.42%	0.76%
Squirrel	0.01%	0.03%	0.01%	0.02%
Unknown Cause	0.03%	0.05%	0.08%	0.13%
Deterioration	0.62%	0.72%	0.82%	0.61%
Scheduled	2.66%	10.13%	2.64%	16.89%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	1.49%	1.93%	3.37%	4.59%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	10.06%	8.15%	8.74%	7.36%
Ice/Snow	0.75%	0.80%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	1.40%	1.85%	0.01%	0.04%
Lightning	1.92%	1.32%	0.07%	0.09%
Tree - Non ROW	25.75%	20.07%	3.82%	3.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number HICKORY PLAINS 9
 Substation Location 1075 Old US 25, Berea, KY 40403
 Circuit Name and Number HICKORY PLAINS 104
 Circuit Location Old US 25
 Total Circuit Length (Miles) 19.3
 2021 Member Count 322
 5 Year Average Member Count 311
 Date of Last Trim 2018
 Date of Next Trim 2024

	5 Year Average		2021	
	SAIDI	SAIFI	SAIDI	SAIFI
	31.37830866	0.414849728	91.42546584	1.139751553

Total Minutes/Frequency	48862.00	646.0000	29439.00	367.0000
Equipment Fault	7.31%	4.64%	0.00%	0.00%
Wind	0.05%	0.15%	0.00%	0.00%
Small Animal	4.08%	7.74%	0.20%	0.27%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	3.38%	3.41%	0.03%	0.27%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	2.85%	9.60%	2.39%	5.99%
Power Supplier	52.72%	49.85%	87.50%	87.74%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	4.31%	8.98%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	6.08%	3.41%	9.29%	5.18%
Lightning	3.11%	3.72%	0.58%	0.54%
Tree - Non ROW	16.12%	8.51%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number HICKORY PLAINS 9
 Substation Location 1075 Old US 25, Berea, KY 40403
 Circuit Name and Number HICKORY PLAINS 124
 Circuit Location Wildlife Preserve
 Total Circuit Length (Miles) 48.2
 2021 Member Count 770
 5 Year Average Member Count 745
 Date of Last Trim 2017
 Date of Next Trim 2023

	5 Year Average		2021	
	SAIDI	SAIFI	SAIDI	SAIFI
	71.74714535	0.858013854	140.6467532	1.564935065

Total Minutes/Frequency	267166.00	3195.0000	108298.00	1205.0000
Equipment Fault	27.60%	32.21%	3.10%	2.66%
Wind	1.67%	0.88%	0.13%	0.08%
Small Animal	9.95%	11.74%	7.83%	7.47%
Squirrel	0.02%	0.06%	0.06%	0.17%
Unknown Cause	2.67%	2.91%	4.62%	4.81%
Deterioration	0.31%	0.50%	0.00%	0.00%
Scheduled	0.43%	1.13%	0.51%	2.74%
Power Supplier	23.80%	23.97%	58.71%	63.57%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.84%	1.25%	0.00%	0.00%
Ice/Snow	2.53%	1.16%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	7.52%	7.32%	5.93%	5.56%
Lightning	4.35%	1.85%	1.78%	1.41%
Tree - Non ROW	18.30%	15.02%	17.34%	11.54%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number HICKORY PLAINS 9
 Substation Location 1075 Old US 25, Berea, KY 40403
 Circuit Name and Number HICKORY PLAINS 134
 Circuit Location Red Lick
 Total Circuit Length (Miles) 75.9
 2021 Member Count 1143
 5 Year Average Member Count 1106
 Date of Last Trim 2019
 Date of Next Trim 2025

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
102.7199755	1.199629013	151.1102362	1.525809274

Total Minutes/Frequency	567789.00	6631.0000	172719.00	1744.0000
Equipment Fault	2.99%	2.77%	0.80%	0.63%
Wind	16.30%	18.99%	0.00%	0.00%
Small Animal	6.09%	8.22%	2.35%	3.73%
Squirrel	0.02%	0.03%	0.06%	0.11%
Unknown Cause	4.97%	4.89%	9.06%	10.38%
Deterioration	0.44%	0.12%	0.00%	0.00%
Scheduled	2.09%	2.49%	1.65%	3.90%
Power Supplier	16.25%	17.18%	53.42%	65.31%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.03%	0.03%	0.00%	0.00%
Public Accident	7.31%	8.51%	0.02%	0.06%
Ice/Snow	0.88%	0.12%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	8.14%	7.63%	3.38%	2.81%
Lightning	4.03%	3.54%	0.00%	0.00%
Tree - Non ROW	30.46%	25.49%	29.25%	13.07%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number HICKORY PLAINS 9
 Substation Location 1075 Old US 25, Berea, KY 40403
 Circuit Name and Number HICKORY PLAINS 144
 Circuit Location Silver Creek/Rainbow Sub
 Total Circuit Length (Miles) 24.8
 2021 Member Count 730
 5 Year Average Member Count 706
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
94.51469849	1.015501252	112.6150685	1.363013699

Total Minutes/Frequency	333663.00	3585.0000	82209.00	995.0000
Equipment Fault	8.51%	6.78%	0.69%	0.40%
Wind	11.79%	8.01%	0.00%	0.00%
Small Animal	4.74%	8.79%	1.11%	1.71%
Squirrel	0.27%	0.45%	1.11%	1.61%
Unknown Cause	1.89%	2.68%	7.67%	9.65%
Deterioration	1.70%	2.51%	0.00%	0.00%
Scheduled	2.90%	3.49%	5.03%	4.82%
Power Supplier	17.92%	20.33%	72.71%	73.27%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.55%	0.39%	0.00%	0.00%
Ice/Snow	10.46%	5.58%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	9.56%	8.76%	2.16%	1.61%
Lightning	3.93%	5.36%	0.87%	0.40%
Tree - Non ROW	25.78%	26.89%	8.65%	6.53%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number HICKORY PLAINS 9
 Substation Location 1075 Old US 25, Berea, KY 40403
 Circuit Name and Number HICKORY PLAINS 154
 Circuit Location North-City of Berea
 Total Circuit Length (Miles) 13.0
 2021 Member Count 466
 5 Year Average Member Count 451
 Date of Last Trim 2018
 Date of Next Trim 2024

	5 Year Average		2021	
	SAIDI	SAIFI	SAIDI	SAIFI
	82.76144027	1.045894379	98.55579399	1.302575107

Total Minutes/Frequency	186509.00	2357.0000	45927.00	607.0000
Equipment Fault	0.27%	0.21%	0.12%	0.16%
Wind	24.00%	23.72%	0.00%	0.00%
Small Animal	6.93%	9.50%	10.22%	14.17%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	6.53%	6.41%	5.50%	6.92%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	1.49%	1.44%	0.00%	0.00%
Power Supplier	20.24%	19.77%	82.19%	76.77%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.16%	1.27%	0.00%	0.00%
Public Accident	5.55%	2.93%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.22%	0.30%	0.90%	1.15%
Tree - ROW	12.39%	13.96%	0.00%	0.00%
Lightning	8.48%	11.16%	0.00%	0.00%
Tree - Non ROW	13.25%	7.85%	1.07%	0.82%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.49%	1.48%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number HICKORY PLAINS 9
 Substation Location 1075 Old US 25, Berea, KY 40403
 Circuit Name and Number HICKORY PLAINS 164
 Circuit Location Richmond Rd
 Total Circuit Length (Miles) 24.2
 2021 Member Count 514
 5 Year Average Member Count 497
 Date of Last Trim 2016
 Date of Next Trim 2023

	5 Year Average		2021	
	SAIDI	SAIFI	SAIDI	SAIFI
	120.4283832	0.883452858	135.7159533	1.540856031

Total Minutes/Frequency	299349.00	2196.0000	69758.00	792.0000
Equipment Fault	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	2.28%	7.19%	0.82%	1.39%
Squirrel	0.21%	0.46%	0.07%	0.13%
Unknown Cause	1.08%	2.32%	2.66%	2.65%
Deterioration	0.92%	1.18%	0.00%	0.00%
Scheduled	0.12%	0.23%	0.27%	0.38%
Power Supplier	24.01%	42.67%	61.28%	65.03%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	50.01%	17.99%	0.00%	0.00%
Ice/Snow	0.52%	1.50%	2.03%	4.04%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	4.47%	5.46%	19.18%	15.15%
Lightning	12.83%	16.44%	0.00%	0.00%
Tree - Non ROW	3.55%	4.55%	13.70%	11.24%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number HOLLOWAY 2
 Substation Location 6447 Harrodsburg Rd., Nicholasville, KY 40356
 Circuit Name and Number HOLLOWAY 124
 Circuit Location Clear Creek/Murphy's Lane
 Total Circuit Length (Miles) 39.5
 2021 Member Count 361
 5 Year Average Member Count 352
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
103.0863176	1.10310734	150.232687	1.534626039

Total Minutes/Frequency	181575.00	1943.0000	54234.00	554.0000
Equipment Fault	1.59%	1.96%	1.64%	1.44%
Wind	0.04%	0.05%	0.00%	0.00%
Small Animal	1.77%	2.83%	1.28%	2.71%
Squirrel	8.15%	18.01%	0.00%	0.00%
Unknown Cause	2.08%	2.42%	2.05%	2.53%
Deterioration	0.15%	0.15%	0.00%	0.00%
Scheduled	1.19%	0.77%	3.22%	2.17%
Power Supplier	21.61%	18.53%	72.35%	64.98%
Bird	0.09%	0.21%	0.31%	0.72%
Overload	1.85%	2.06%	6.20%	7.22%
Public Accident	3.14%	20.79%	0.00%	0.00%
Ice/Snow	0.13%	0.05%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.40%	0.57%	0.11%	0.18%
Lightning	9.95%	5.92%	0.16%	0.18%
Tree - Non ROW	47.80%	25.48%	12.52%	17.51%
Large Animal	0.07%	0.21%	0.17%	0.36%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

39-114

Substation Name and Number JACKSONVILLE 39
 Substation Location 1386 Russell Cave Rd., Cynthiana, KY 41031
 Circuit Name and Number JACKSONVILLE 114
 Circuit Location Bourbon Acres
 Total Circuit Length (Miles) 93.4
 2021 Member Count 656
 5 Year Average Member Count 653
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
99.8512846	0.958762492	243.7987805	2.132621951

Total Minutes/Frequency	325977.00	3130.0000	159932.00	1399.0000
Equipment Fault	20.60%	25.94%	10.64%	9.36%
Wind	1.57%	1.57%	0.00%	0.00%
Small Animal	3.33%	4.57%	1.96%	2.64%
Squirrel	0.02%	0.03%	0.03%	0.07%
Unknown Cause	6.53%	5.37%	2.99%	3.50%
Deterioration	2.00%	3.35%	3.09%	4.50%
Scheduled	1.58%	4.95%	0.58%	0.86%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	2.12%	2.91%	1.96%	3.00%
Ice/Snow	0.07%	0.19%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.04%	0.03%	0.00%	0.00%
Tree - ROW	13.68%	9.07%	0.00%	0.00%
Lightning	34.40%	32.30%	64.07%	62.76%
Tree - Non ROW	13.17%	7.41%	12.83%	8.15%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.91%	2.30%	1.85%	5.15%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

39-124

Substation Name and Number JACKSONVILLE 39
 Substation Location 1386 Russell Cave Rd., Cynthiana, KY 41031
 Circuit Name and Number JACKSONVILLE 124
 Circuit Location Silas
 Total Circuit Length (Miles) 27.1
 2021 Member Count 212
 5 Year Average Member Count 211
 Date of Last Trim 2019
 Date of Next Trim 2025

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
87.45712509	0.630313083	168.3726415	0.617924528

Total Minutes/Frequency	92270.00	665.0000	35695.00	131.0000
Equipment Fault	19.90%	32.93%	0.11%	0.76%
Wind	12.71%	11.43%	8.44%	8.40%
Small Animal	7.43%	11.73%	4.76%	6.87%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.67%	1.65%	0.00%	0.00%
Deterioration	27.45%	8.12%	68.88%	36.64%
Scheduled	0.21%	0.45%	0.17%	1.53%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.11%	0.75%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.93%	0.75%	0.00%	0.00%
Lightning	8.07%	12.93%	5.40%	19.85%
Tree - Non ROW	21.34%	15.64%	10.81%	22.90%
Large Animal	0.55%	0.60%	1.43%	3.05%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.63%	3.01%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

34-114

Substation Name and Number LEES_LICK 34
 Substation Location HWY 1842, Cynthia, KY 41031
 Circuit Name and Number LEES_LICK 114
 Circuit Location Davis
 Total Circuit Length (Miles) 97.1
 2021 Member Count 651
 5 Year Average Member Count 622
 Date of Last Trim 2021
 Date of Next Trim 2027

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
112.5372671	1.24291438	63.60061444	1.399385561

Total Minutes/Frequency	350130.00	3867.0000	41404.00	911.0000
Equipment Fault	19.30%	15.44%	1.07%	0.22%
Wind	3.70%	1.94%	13.12%	3.07%
Small Animal	4.51%	6.03%	6.09%	5.27%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	3.99%	3.15%	0.61%	0.33%
Deterioration	0.35%	0.34%	0.22%	0.22%
Scheduled	2.85%	4.53%	0.32%	0.11%
Power Supplier	11.13%	15.75%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.04%	0.08%	0.00%	0.00%
Public Accident	2.29%	2.82%	6.66%	3.40%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	11.61%	6.80%	1.35%	0.88%
Lightning	26.61%	21.67%	52.86%	14.38%
Tree - Non ROW	11.70%	4.53%	1.33%	0.22%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.02%	0.03%	0.18%	0.11%
Contractor	1.92%	16.91%	16.19%	71.79%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Contractor caused outages. No corrections necessary at this time.

Substation Name and Number LEES_LICK 34
 Substation Location HWY 1842, Cynthiana, KY 41031
 Circuit Name and Number LEES_LICK 124
 Circuit Location White Oak
 Total Circuit Length (Miles) 63.7
 2021 Member Count 470
 5 Year Average Member Count 449
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
169.3828548	1.42284287	236.8595745	2.476595745

Total Minutes/Frequency	380469.00	3196.0000	111324.00	1164.0000
Equipment Fault	34.44%	19.71%	0.68%	0.52%
Wind	0.10%	0.22%	0.00%	0.00%
Small Animal	5.47%	7.76%	1.59%	1.98%
Squirrel	1.01%	1.16%	0.00%	0.00%
Unknown Cause	3.30%	4.51%	4.83%	3.61%
Deterioration	12.10%	28.10%	40.89%	76.55%
Scheduled	0.38%	0.34%	0.15%	0.09%
Power Supplier	5.31%	13.74%	0.00%	0.00%
Bird	0.43%	0.66%	0.08%	0.17%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.17%	0.25%	0.50%	0.60%
Lightning	1.06%	1.50%	0.79%	0.86%
Tree - Non ROW	36.23%	22.06%	50.50%	15.64%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number	LEES_LICK	34
Substation Location	HWY 1842, Cynthiana, KY 41031	
Circuit Name and Number	LEES_LICK	144
Circuit Location	Hicks/Muddy Ford	
Total Circuit Length (Miles)	60.9	
2021 Member Count	499	
5 Year Average Member Count	477	
Date of Last Trim	2016	
Date of Next Trim	2022	

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
197.4989097	1.390890546	355.0841683	2.498997996

Total Minutes/Frequency	470996.00	3317.0000	177187.00	1247.0000
Equipment Fault	9.32%	10.07%	0.21%	0.32%
Wind	25.26%	17.24%	63.35%	40.10%
Small Animal	0.98%	2.38%	0.84%	1.92%
Squirrel	0.11%	0.12%	0.06%	0.08%
Unknown Cause	0.02%	0.03%	0.00%	0.00%
Deterioration	4.67%	2.56%	5.14%	3.37%
Scheduled	7.22%	18.24%	11.57%	40.10%
Power Supplier	4.64%	14.32%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.47%	1.51%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.09%	0.18%	0.05%	0.08%
Lightning	2.75%	3.53%	0.09%	0.48%
Tree - Non ROW	43.47%	29.79%	18.68%	13.55%
Large Animal	0.01%	0.03%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number LEES_LICK 34
 Substation Location HWY 1842, Cynthiana, KY 41031
 Circuit Name and Number LEES_LICK 154
 Circuit Location Newtown
 Total Circuit Length (Miles) 3.3
 2021 Member Count 19
 5 Year Average Member Count 18
 Date of Last Trim 2016
 Date of Next Trim 2022

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
58.43346957	0.352406903	196.5789474	0.684210526

Total Minutes/Frequency	5306.00	32.0000	3735.00	13.0000
Equipment Fault	3.75%	3.13%	0.00%	0.00%
Wind	58.67%	34.38%	83.35%	84.62%
Small Animal	1.30%	3.13%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	11.84%	6.25%	0.00%	0.00%
Power Supplier	12.72%	46.88%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	11.72%	6.25%	16.65%	15.38%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number MILLERSBURG 38
 Substation Location 1024 Miller Station Rd., Carlisle, KY 40311
 Circuit Name and Number MILLERSBURG 104
 Circuit Location Lake Carnico
 Total Circuit Length (Miles) 93.3
 2021 Member Count 407
 5 Year Average Member Count 400
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
87.02089062	0.634867882	110.2727273	0.577395577

Total Minutes/Frequency	174078.00	1270.0000	44881.00	235.0000
Equipment Fault	5.15%	4.96%	0.77%	0.85%
Wind	4.40%	1.65%	16.89%	8.51%
Small Animal	12.64%	19.53%	0.27%	1.70%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.10%	0.24%	0.00%	0.00%
Deterioration	24.87%	20.31%	71.89%	75.32%
Scheduled	1.38%	3.23%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.05%	0.08%	0.00%	0.00%
Public Accident	6.82%	7.32%	0.00%	0.00%
Ice/Snow	4.25%	2.68%	5.53%	5.96%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	17.69%	20.39%	0.00%	0.00%
Lightning	13.76%	14.65%	4.15%	7.23%
Tree - Non ROW	8.83%	4.88%	0.50%	0.43%
Large Animal	0.06%	0.08%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number MILLERSBURG 38
 Substation Location 1024 Miller Station Rd., Carlisle, KY 40311
 Circuit Name and Number MILLERSBURG 114
 Circuit Location Little Rock
 Total Circuit Length (Miles) 89.5
 2021 Member Count 488
 5 Year Average Member Count 480
 Date of Last Trim 2021
 Date of Next Trim 2027

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
197.6107535	1.126104793	188.2151639	1.235655738

Total Minutes/Frequency	473976.00	2701.0000	91849.00	603.0000
Equipment Fault	24.65%	21.10%	16.75%	25.37%
Wind	10.56%	9.14%	13.32%	8.79%
Small Animal	4.54%	6.00%	0.71%	1.49%
Squirrel	0.10%	0.15%	0.42%	0.50%
Unknown Cause	1.36%	2.92%	0.00%	0.00%
Deterioration	6.41%	6.29%	6.48%	3.98%
Scheduled	0.31%	2.63%	0.31%	0.50%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.05%	0.15%	0.00%	0.00%
Public Accident	7.70%	8.44%	16.54%	17.58%
Ice/Snow	3.08%	4.41%	15.89%	19.73%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	13.27%	12.37%	6.59%	8.96%
Lightning	10.45%	9.96%	0.16%	0.33%
Tree - Non ROW	17.34%	16.03%	21.89%	10.95%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.18%	0.41%	0.93%	1.82%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number NEWBY 7
 Substation Location 247 Maple Grove Rd., Richmond, KY 40475
 Circuit Name and Number NEWBY 104
 Circuit Location Hickory Hill
 Total Circuit Length (Miles) 14.6
 2021 Member Count 258
 5 Year Average Member Count 248
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
152.13902	1.376520855	406.9263566	3.244186047

Total Minutes/Frequency	188665.00	1707.0000	104987.00	837.0000
Equipment Fault	0.20%	0.35%	0.12%	0.36%
Wind	3.47%	2.75%	5.27%	4.18%
Small Animal	7.12%	11.95%	5.14%	8.24%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	4.80%	6.50%	0.00%	0.00%
Deterioration	0.10%	0.06%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	4.94%	3.22%	1.63%	3.94%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	37.53%	31.17%	24.72%	17.44%
Lightning	2.50%	3.10%	2.24%	3.35%
Tree - Non ROW	39.31%	40.83%	60.84%	62.37%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.02%	0.06%	0.04%	0.12%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number	NEWBY	7
Substation Location	247 Maple Grove Rd., Richmond, KY 40475	
Circuit Name and Number	NEWBY	114
Circuit Location	Baldwin	
Total Circuit Length (Miles)	19.7	
2021 Member Count	136	
5 Year Average Member Count	131	
Date of Last Trim	2018	
Date of Next Trim	2023	

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
173.4484229	0.731236681	400.4411765	0.875

Total Minutes/Frequency	113381.00	478.0000	54460.00	119.0000
Equipment Fault	29.60%	14.44%	0.00%	0.00%
Wind	4.76%	7.53%	0.00%	0.00%
Small Animal	5.14%	15.06%	2.28%	10.92%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	3.96%	7.95%	1.07%	5.88%
Deterioration	1.21%	2.72%	2.12%	10.08%
Scheduled	3.63%	15.90%	0.54%	3.36%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.07%	0.21%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.12%	0.63%	0.25%	2.52%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.17%	0.21%	0.00%	0.00%
Lightning	3.29%	9.83%	2.75%	12.61%
Tree - Non ROW	48.06%	25.52%	91.00%	54.62%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number NEWBY 7
 Substation Location 247 Maple Grove Rd., Richmond, KY 40475
 Circuit Name and Number NEWBY 134
 Circuit Location Tates Creek Rd
 Total Circuit Length (Miles) 21.7
 2021 Member Count 396
 5 Year Average Member Count 381
 Date of Last Trim 2021
 Date of Next Trim 2027

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
177.9126875	1.348651262	206.8434343	1.484848485

Total Minutes/Frequency	338636.00	2567.0000	81910.00	588.0000
Equipment Fault	18.39%	17.02%	1.05%	1.36%
Wind	0.89%	1.29%	0.00%	0.00%
Small Animal	2.18%	4.40%	0.78%	1.70%
Squirrel	0.99%	1.83%	0.22%	0.34%
Unknown Cause	1.35%	1.99%	3.64%	5.61%
Deterioration	0.70%	0.93%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.03%	0.04%	0.00%	0.00%
Ice/Snow	0.20%	0.04%	0.84%	0.17%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.37%	0.31%	1.53%	1.36%
Tree - ROW	33.46%	19.40%	21.39%	6.46%
Lightning	0.68%	0.86%	0.00%	0.00%
Tree - Non ROW	40.74%	51.89%	70.54%	82.99%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number NEWBY 7
 Substation Location 247 Maple Grove Rd., Richmond, KY 40475
 Circuit Name and Number NEWBY 144
 Circuit Location Bears Den/Mule Shed Rd
 Total Circuit Length (Miles) 57.7
 2021 Member Count 636
 5 Year Average Member Count 611
 Date of Last Trim 2018
 Date of Next Trim 2024

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
291.3235122	1.249939241	1236.561321	4.34591195

Total Minutes/Frequency	890561.00	3821.0000	786453.00	2764.0000
Equipment Fault	11.51%	16.57%	8.74%	15.16%
Wind	0.09%	0.21%	0.00%	0.00%
Small Animal	9.84%	16.36%	8.45%	15.09%
Squirrel	0.01%	0.16%	0.00%	0.00%
Unknown Cause	0.69%	2.20%	0.11%	0.90%
Deterioration	0.42%	0.44%	0.00%	0.00%
Scheduled	0.20%	1.07%	0.02%	0.04%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	6.11%	7.93%	6.71%	9.77%
Ice/Snow	0.68%	1.15%	0.76%	1.56%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	3.62%	6.60%	3.25%	7.16%
Lightning	0.43%	1.47%	0.15%	0.43%
Tree - Non ROW	66.40%	45.83%	71.82%	49.89%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.03%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number	NEWBY	7
Substation Location	247 Maple Grove Rd., Richmond, KY 40475	
Circuit Name and Number	NEWBY	154
Circuit Location	Jiggwate	
Total Circuit Length (Miles)	30.0	
2021 Member Count	227	
5 Year Average Member Count	218	
Date of Last Trim	2015	
Date of Next Trim	2022	

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
193.2716787	0.84869982	338.6079295	1.68722467

Total Minutes/Frequency	210875.00	926.0000	76864.00	383.0000
Equipment Fault	30.50%	18.03%	0.34%	0.26%
Wind	3.80%	3.13%	1.64%	1.57%
Small Animal	6.28%	14.15%	1.86%	7.05%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	2.55%	6.16%	0.43%	0.78%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.19%	0.43%	0.28%	0.52%
Power Supplier	26.17%	24.62%	71.78%	59.53%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	12.70%	6.70%	0.00%	0.00%
Ice/Snow	1.03%	3.24%	2.84%	7.83%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	7.75%	11.12%	17.31%	20.10%
Lightning	5.42%	9.94%	0.00%	0.00%
Tree - Non ROW	3.62%	2.48%	3.51%	2.35%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number	NINEVAH	22
Substation Location	1746 Clifton Rd., Lawrenceburg, KY 40342	
Circuit Name and Number	NINEVAH	114
Circuit Location	Wildcat	
Total Circuit Length (Miles)	44.5	
2021 Member Count	410	
5 Year Average Member Count	405	
Date of Last Trim	2017	
Date of Next Trim	2023	

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
131.9401385	0.981059392	114.5268293	0.982926829

Total Minutes/Frequency	267092.00	1986.0000	46956.00	403.0000
Equipment Fault	1.14%	3.12%	1.39%	3.23%
Wind	8.68%	5.84%	0.00%	0.00%
Small Animal	2.49%	8.41%	4.34%	10.67%
Squirrel	0.04%	0.10%	0.09%	0.25%
Unknown Cause	0.06%	0.05%	0.00%	0.00%
Deterioration	0.21%	0.65%	0.36%	0.74%
Scheduled	0.08%	0.15%	0.46%	0.74%
Power Supplier	30.63%	20.29%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.10%	0.15%	0.56%	0.74%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	1.42%	1.81%	8.05%	8.93%
Tree - ROW	3.75%	6.60%	19.66%	30.52%
Lightning	9.97%	14.10%	15.58%	23.33%
Tree - Non ROW	40.94%	38.52%	46.72%	19.85%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.49%	0.20%	2.79%	0.99%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number	NINEVAH	22
Substation Location	1746 Clifton Rd., Lawrenceburg, KY 40342	
Circuit Name and Number	NINEVAH	134
Circuit Location	Lanes Mill/Dove Creek	
Total Circuit Length (Miles)	60.3	
2021 Member Count	978	
5 Year Average Member Count	966	
Date of Last Trim	2017	
Date of Next Trim	2023	

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
156.2888252	1.266360976	135.2801636	1.339468303

Total Minutes/Frequency	754687.00	6115.0000	132304.00	1310.0000
Equipment Fault	5.31%	5.84%	22.36%	17.40%
Wind	17.92%	25.17%	28.70%	18.93%
Small Animal	3.41%	7.08%	6.31%	11.45%
Squirrel	0.12%	0.28%	0.00%	0.00%
Unknown Cause	4.46%	7.65%	4.95%	5.95%
Deterioration	0.18%	0.34%	0.10%	0.08%
Scheduled	0.19%	1.44%	0.59%	4.20%
Power Supplier	32.33%	15.58%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.27%	0.67%	0.00%	0.00%
Ice/Snow	1.18%	2.53%	2.29%	9.62%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	6.14%	8.57%	24.03%	26.64%
Lightning	6.11%	8.75%	1.56%	1.45%
Tree - Non ROW	22.38%	16.08%	9.12%	4.27%
Large Animal	0.00%	0.02%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number NORTH MADISON 15
 Substation Location 2064 Jacks Creek Pike, Richmond KY 40475
 Circuit Name and Number NORTH MADISON 114
 Circuit Location Boones Trace
 Total Circuit Length (Miles) 30.2
 2021 Member Count 523
 5 Year Average Member Count 519
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
169.4662466	1.178974052	54.80114723	1.910133843

Total Minutes/Frequency	439702.00	3059.0000	28661.00	999.0000
Equipment Fault	14.08%	23.99%	43.62%	42.54%
Wind	1.46%	1.34%	0.00%	0.00%
Small Animal	1.60%	3.56%	1.10%	0.50%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.56%	1.01%	3.22%	1.10%
Deterioration	0.15%	0.33%	0.00%	0.00%
Scheduled	0.48%	1.57%	0.89%	0.50%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.15%	0.36%	0.00%	0.00%
Overload	2.16%	4.84%	0.00%	0.00%
Public Accident	4.04%	3.30%	0.00%	0.00%
Ice/Snow	1.41%	13.50%	21.61%	41.34%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.42%	0.88%	2.34%	1.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	73.45%	45.11%	27.21%	13.01%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.05%	0.20%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number NORTH MADISON 15
 Substation Location 2064 Jacks Creek Pike, Richmond KY 40475
 Circuit Name and Number NORTH MADISON 124
 Circuit Location Indigo Run
 Total Circuit Length (Miles) 17.7
 2021 Member Count 273
 5 Year Average Member Count 271
 Date of Last Trim 2015
 Date of Next Trim 2022

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
25.70500759	0.301247863	101.3699634	1.131868132

Total Minutes/Frequency	34814.00	408.0000	27674.00	309.0000
Equipment Fault	1.46%	0.74%	0.98%	0.32%
Wind	1.54%	0.25%	1.93%	0.32%
Small Animal	5.13%	13.48%	3.01%	5.83%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.70%	1.47%	0.38%	1.29%
Deterioration	0.76%	0.74%	0.00%	0.00%
Scheduled	4.80%	8.82%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.19%	0.25%	0.00%	0.00%
Ice/Snow	1.51%	1.23%	1.90%	1.62%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	83.41%	72.30%	91.79%	90.61%
Tree - Non ROW	0.50%	0.74%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number NORTH MADISON 15
 Substation Location 2064 Jacks Creek Pike, Richmond KY 40475
 Circuit Name and Number NORTH MADISON 134
 Circuit Location Tates Creek
 Total Circuit Length (Miles) 31.4
 2021 Member Count 259
 5 Year Average Member Count 257
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
131.8137203	0.819511525	285.4903475	2.108108108

Total Minutes/Frequency	169369.00	1053.0000	73942.00	546.0000
Equipment Fault	10.89%	11.40%	19.03%	15.93%
Wind	1.67%	1.23%	3.52%	2.20%
Small Animal	2.41%	4.27%	3.98%	4.03%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	3.16%	3.23%	1.09%	1.10%
Deterioration	1.91%	2.56%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	2.39%	2.75%	3.85%	4.58%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	27.45%	33.05%	60.47%	62.27%
Lightning	0.40%	1.14%	0.72%	0.73%
Tree - Non ROW	16.76%	17.00%	7.34%	9.16%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	32.97%	23.36%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

ROW corrected at time of outage. No corrections necessary at this time.

Substation Name and Number OXFORD 40
 Substation Location 3466 Cynthiana Rd., Georgetown, KY 40324
 Circuit Name and Number OXFORD 114
 Circuit Location Finnell
 Total Circuit Length (Miles) 21.0
 2021 Member Count 183
 5 Year Average Member Count 177
 Date of Last Trim 2019
 Date of Next Trim 2025

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
259.0925563	1.383436455	748.852459	2.398907104

Total Minutes/Frequency	229233.00	1224.0000	137040.00	439.0000
Equipment Fault	4.06%	7.84%	0.00%	0.00%
Wind	2.03%	0.98%	0.28%	0.68%
Small Animal	3.51%	11.36%	0.42%	1.59%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	1.20%	2.12%	0.67%	2.51%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.06%	0.16%	0.10%	0.46%
Power Supplier	16.89%	28.68%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.10%	1.55%	1.71%	3.64%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.20%	0.41%	0.25%	0.68%
Lightning	2.12%	2.94%	0.15%	0.23%
Tree - Non ROW	68.83%	43.95%	96.42%	90.21%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number OXFORD 40
 Substation Location 3466 Cynthiana Rd., Georgetown, KY 40324
 Circuit Name and Number OXFORD 124
 Circuit Location Cherry Blossom
 Total Circuit Length (Miles) 23.3
 2021 Member Count 337
 5 Year Average Member Count 326
 Date of Last Trim 2017
 Date of Next Trim 2022

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
34.40680397	0.288467469	38.83086053	0.258160237

Total Minutes/Frequency	56059.00	470.0000	13086.00	87.0000
Equipment Fault	18.56%	8.72%	58.64%	33.33%
Wind	6.76%	8.94%	25.58%	41.38%
Small Animal	1.92%	3.83%	2.20%	8.05%
Squirrel	0.10%	0.21%	0.00%	0.00%
Unknown Cause	1.00%	1.49%	0.00%	0.00%
Deterioration	0.37%	1.49%	0.00%	0.00%
Scheduled	0.66%	1.70%	0.00%	0.00%
Power Supplier	63.55%	67.23%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	5.24%	4.68%	7.58%	9.20%
Tree - Non ROW	1.84%	1.70%	5.99%	8.05%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number OXFORD 40
 Substation Location 3466 Cynthia Rd., Georgetown, KY 40324
 Circuit Name and Number OXFORD 134
 Circuit Location BCTC
 Total Circuit Length (Miles) 32.3
 2021 Member Count 321
 5 Year Average Member Count 310
 Date of Last Trim 2016
 Date of Next Trim 2022

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
220.7385848	1.741041807	369.1090343	2.174454829

Total Minutes/Frequency	342574.00	2702.0000	118484.00	698.0000
Equipment Fault	2.40%	3.11%	0.00%	0.00%
Wind	40.59%	32.94%	54.44%	46.70%
Small Animal	2.64%	5.88%	0.32%	0.57%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.30%	0.44%	0.08%	0.14%
Deterioration	0.03%	0.04%	0.00%	0.00%
Scheduled	0.54%	0.63%	0.11%	0.29%
Power Supplier	19.08%	21.91%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.01%	0.07%	0.00%	0.00%
Public Accident	1.69%	2.48%	0.00%	0.00%
Ice/Snow	0.11%	0.07%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	2.26%	2.78%	0.00%	0.00%
Lightning	0.69%	0.44%	0.13%	0.14%
Tree - Non ROW	29.37%	28.57%	44.10%	49.71%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.28%	0.63%	0.82%	2.44%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number	POWELL TAYLOR	28
Substation Location	1024 Powell Taylor Rd., Lawrenceburg, KY 40342	
Circuit Name and Number	POWELL TAYLOR	114
Circuit Location	Birdie Rd	
Total Circuit Length (Miles)	59.0	
2021 Member Count	411	
5 Year Average Member Count	398	
Date of Last Trim	2017	
Date of Next Trim	2023	

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
341.5676355	1.994618614	608.2360097	2.749391727

Total Minutes/Frequency	679841.00	3970.0000	249985.00	1130.0000
Equipment Fault	5.07%	7.36%	10.72%	20.80%
Wind	3.77%	3.27%	0.45%	1.15%
Small Animal	3.65%	6.68%	6.70%	15.84%
Squirrel	0.09%	0.25%	0.15%	0.53%
Unknown Cause	0.53%	0.68%	0.00%	0.00%
Deterioration	0.01%	0.08%	0.00%	0.00%
Scheduled	3.01%	10.58%	1.12%	1.50%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	6.56%	6.68%	0.00%	0.00%
Ice/Snow	7.36%	3.55%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	2.58%	5.62%	0.07%	0.27%
Lightning	8.60%	11.86%	3.20%	5.40%
Tree - Non ROW	57.93%	40.35%	77.56%	54.34%
Large Animal	0.01%	0.05%	0.03%	0.18%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.83%	3.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number POWELL TAYLOR 28
 Substation Location 1024 Powell Taylor Rd., Lawrenceburg, KY 40342
 Circuit Name and Number POWELL TAYLOR 134
 Circuit Location Walmart/Briar Creek
 Total Circuit Length (Miles) 10.6
 2021 Member Count 350
 5 Year Average Member Count 339
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
10.6793718	0.172866468	8.585714286	0.242857143

Total Minutes/Frequency	18101.00	293.0000	3005.00	85.0000
Equipment Fault	46.58%	23.55%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	25.13%	43.34%	83.23%	85.88%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	2.78%	4.10%	16.77%	14.12%
Deterioration	0.27%	0.34%	0.00%	0.00%
Scheduled	1.56%	0.34%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.53%	0.34%	0.00%	0.00%
Ice/Snow	2.49%	0.34%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	1.06%	1.37%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	19.61%	26.28%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Animal guards to be placed strategically.

Substation Name and Number POWELL TAYLOR 28
 Substation Location 1024 Powell Taylor Rd., Lawrenceburg, KY 40342
 Circuit Name and Number POWELL TAYLOR 144
 Circuit Location Powell Taylor/Glenview
 Total Circuit Length (Miles) 9.3
 2021 Member Count 187
 5 Year Average Member Count 181
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
40.27330281	1.072232103	79.85561497	1.411764706

Total Minutes/Frequency	36471.00	971.0000	14933.00	264.0000
Equipment Fault	5.58%	2.99%	3.08%	1.52%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	12.64%	9.17%	5.75%	6.44%
Squirrel	0.53%	0.41%	0.00%	0.00%
Unknown Cause	0.21%	0.10%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	3.03%	18.95%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.11%	0.93%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	19.89%	9.27%	30.42%	21.21%
Lightning	52.13%	38.62%	60.76%	70.83%
Tree - Non ROW	4.89%	19.57%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number SINAI 23
 Substation Location Hwy 62, Lawrenceburg, KY 40342
 Circuit Name and Number SINAI 114
 Circuit Location Buntain School Rd/Birdie
 Total Circuit Length (Miles) 28.1
 2021 Member Count 210
 5 Year Average Member Count 204
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
34.71810716	0.511509664	35.45714286	0.285714286

Total Minutes/Frequency	35498.00	523.0000	7446.00	60.0000
Equipment Fault	10.03%	4.59%	37.27%	26.67%
Wind	2.97%	4.59%	0.00%	0.00%
Small Animal	51.01%	55.83%	24.82%	50.00%
Squirrel	7.85%	16.83%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.73%	0.96%	0.00%	0.00%
Scheduled	2.15%	5.54%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.75%	0.76%	0.00%	0.00%
Ice/Snow	2.39%	1.15%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	5.75%	1.53%	0.00%	0.00%
Lightning	4.03%	1.91%	8.61%	1.67%
Tree - Non ROW	11.26%	6.12%	29.30%	21.67%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.08%	0.19%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number SINAI 23
 Substation Location Hwy 62, Lawrenceburg, KY 40342
 Circuit Name and Number SINAI 124
 Circuit Location Beaver Lake/HWY 53
 Total Circuit Length (Miles) 98.8
 2021 Member Count 819
 5 Year Average Member Count 798
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
109.5942745	0.767878899	136.6446886	0.968253968

Total Minutes/Frequency	437019.00	3062.0000	111912.00	793.0000
Equipment Fault	30.33%	34.00%	3.31%	2.90%
Wind	0.71%	2.45%	0.62%	1.39%
Small Animal	11.44%	17.57%	2.52%	5.04%
Squirrel	0.03%	0.10%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	2.67%	3.00%	8.63%	9.46%
Scheduled	0.48%	5.39%	0.31%	1.77%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.02%	0.07%	0.08%	0.25%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.15%	0.29%	0.23%	0.13%
Ice/Snow	12.41%	2.06%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	4.46%	7.41%	17.19%	27.36%
Lightning	3.76%	3.72%	8.65%	10.34%
Tree - Non ROW	33.53%	23.94%	58.47%	41.36%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number SINAI 23
 Substation Location Hwy 62, Lawrenceburg, KY 40342
 Circuit Name and Number SINAI 134
 Circuit Location West Anderson/ Skillet
 Total Circuit Length (Miles) 48.8
 2021 Member Count 359
 5 Year Average Member Count 350
 Date of Last Trim 2019
 Date of Next Trim 2025

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
112.7891109	1.104165846	277.54039	2.348189415

Total Minutes/Frequency	197147.00	1930.0000	99637.00	843.0000
Equipment Fault	8.85%	10.16%	3.01%	10.79%
Wind	0.73%	0.62%	0.05%	0.12%
Small Animal	18.41%	13.68%	17.97%	11.39%
Squirrel	0.04%	0.05%	0.07%	0.12%
Unknown Cause	0.07%	0.10%	0.15%	0.24%
Deterioration	0.15%	0.31%	0.00%	0.00%
Scheduled	0.29%	0.26%	0.37%	0.24%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	37.61%	31.35%	70.80%	69.16%
Ice/Snow	0.53%	0.10%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.53%	0.47%	0.00%	0.00%
Lightning	18.24%	18.34%	0.73%	0.24%
Tree - Non ROW	14.54%	24.56%	6.86%	7.71%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Public Accident caused outages. No corrections necessary at this time.

Substation Name and Number SINAI 23
 Substation Location Hwy 62, Lawrenceburg, KY 40342
 Circuit Name and Number SINAI 144
 Circuit Location Ashby Rd
 Total Circuit Length (Miles) 70.4
 2021 Member Count 497
 5 Year Average Member Count 484
 Date of Last Trim 2018
 Date of Next Trim 2024

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
135.5780932	0.851299308	84.06237425	1.106639839

Total Minutes/Frequency	328076.00	2060.0000	41779.00	550.0000
Equipment Fault	11.22%	13.40%	10.14%	4.36%
Wind	53.36%	29.81%	7.95%	5.09%
Small Animal	5.11%	10.19%	17.45%	11.45%
Squirrel	0.37%	0.63%	0.00%	0.00%
Unknown Cause	0.03%	0.10%	0.22%	0.36%
Deterioration	0.26%	0.68%	0.27%	0.36%
Scheduled	0.03%	0.10%	0.21%	0.36%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.59%	2.72%	0.00%	0.00%
Ice/Snow	2.36%	1.80%	0.00%	0.00%
Fire	1.30%	2.23%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	5.93%	4.47%	0.00%	0.00%
Lightning	3.39%	6.02%	2.00%	1.45%
Tree - Non ROW	15.01%	27.77%	61.77%	76.55%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.02%	0.05%	0.00%	0.00%
Flash Flood	0.02%	0.05%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

12-114

Substation Name and Number SOUTH ELKHORN 12
 Substation Location 3251 Keene Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH ELKHORN 114
 Circuit Location Bellerive
 Total Circuit Length (Miles) 17.6
 2021 Member Count 438
 5 Year Average Member Count 434
 Date of Last Trim 2019
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
59.14800059	0.799953079	112.7260274	1.02739726

Total Minutes/Frequency	128397.97	1736.5312	49374.00	450.0000
Equipment Fault	13.48%	5.41%	1.83%	1.33%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	0.73%	1.32%	0.30%	0.89%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	2.54%	1.04%	0.28%	0.44%
Deterioration	2.20%	2.36%	0.00%	0.00%
Scheduled	2.74%	12.32%	0.00%	0.00%
Power Supplier	15.58%	24.50%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.35%	2.36%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	24.76%	25.34%	0.00%	0.00%
Lightning	37.62%	25.34%	97.58%	97.33%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number SOUTH ELKHORN 12
 Substation Location 3251 Keene Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH ELKHORN 124
 Circuit Location Champions
 Total Circuit Length (Miles) 30.9
 2021 Member Count 424
 5 Year Average Member Count 420
 Date of Last Trim 2021
 Date of Next Trim 2027

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
68.10585672	0.714101748	170.3443396	1.280660377

Total Minutes/Frequency	143118.01	1500.6172	72226.00	543.0000
Equipment Fault	21.15%	19.39%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	3.84%	7.00%	2.71%	6.45%
Squirrel	1.17%	2.13%	0.00%	0.00%
Unknown Cause	1.80%	3.67%	1.18%	3.50%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.39%	0.40%	0.00%	0.00%
Power Supplier	13.16%	26.70%	0.00%	0.00%
Bird	0.09%	0.13%	0.19%	0.37%
Overload	0.81%	0.87%	0.00%	0.00%
Public Accident	0.61%	0.40%	0.00%	0.00%
Ice/Snow	12.37%	1.80%	21.97%	4.24%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	5.31%	5.20%	4.22%	5.34%
Lightning	0.02%	0.13%	0.00%	0.00%
Tree - Non ROW	39.27%	32.19%	69.73%	80.11%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number SOUTH JESSAMINE 14
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH JESSAMINE 104
 Circuit Location John Watts
 Total Circuit Length (Miles) 4.5
 2021 Member Count 26
 5 Year Average Member Count 25
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
8.011567755	0.056193361	6.692307692	0.076923077

Total Minutes/Frequency	998.00	7.0000	174.00	2.0000
Equipment Fault	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	18.84%	28.57%	49.43%	50.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	5.71%	14.29%	0.00%	0.00%
Lightning	66.13%	42.86%	50.57%	50.00%
Tree - Non ROW	9.32%	14.29%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number SOUTH JESSAMINE 14
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH JESSAMINE 134
 Circuit Location Chrisman Mill
 Total Circuit Length (Miles) 113.0
 2021 Member Count 943
 5 Year Average Member Count 904
 Date of Last Trim 2021
 Date of Next Trim 2027

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
194.0379825	1.429597923	222.3743372	1.662778367

Total Minutes/Frequency	876674.00	6459.0000	209699.00	1568.0000
Equipment Fault	27.62%	21.29%	23.89%	17.67%
Wind	3.97%	3.16%	0.90%	1.21%
Small Animal	2.83%	5.22%	1.20%	2.17%
Squirrel	0.05%	0.11%	0.03%	0.06%
Unknown Cause	2.86%	5.50%	4.61%	7.08%
Deterioration	3.61%	1.73%	0.00%	0.00%
Scheduled	0.58%	1.30%	0.88%	1.34%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.18%	0.46%	0.03%	0.06%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	12.35%	16.57%	4.64%	7.14%
Ice/Snow	0.03%	0.03%	0.10%	0.13%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	8.05%	8.47%	20.26%	15.63%
Lightning	3.63%	5.03%	14.11%	19.07%
Tree - Non ROW	33.51%	29.71%	26.38%	22.64%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.02%	0.02%	0.00%	0.00%
Contractor	0.71%	1.41%	2.98%	5.80%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

17-114

Substation Name and Number SOUTH POINT 17
 Substation Location Laudale Drive, Nicholasville, KY 40356
 Circuit Name and Number SOUTH POINT 114
 Circuit Location Southpoint Drive
 Total Circuit Length (Miles) 8.8
 2021 Member Count 522
 5 Year Average Member Count 382
 Date of Last Trim 2020
 Date of Next Trim 2024

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
37.22954752	0.362914094	112.6685824	1.093869732

Total Minutes/Frequency	71194.00	694.0000	58813.00	571.0000
Equipment Fault	2.44%	1.30%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	0.02%	0.29%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.40%	0.43%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	1.61%	1.87%	0.00%	0.00%
Power Supplier	82.61%	82.28%	100.00%	100.00%
Bird	0.00%	0.14%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.09%	1.87%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	12.84%	11.82%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number SOUTH POINT 17
 Substation Location Laudale Drive, Nicholasville, KY 40356
 Circuit Name and Number SOUTH POINT 124
 Circuit Location Brannon Crossing Movie Tavern
 Total Circuit Length (Miles) 10.6
 2021 Member Count 135
 5 Year Average Member Count 99
 Date of Last Trim 2020
 Date of Next Trim 2024

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
158.3367346	2.610401681	565.1555556	9.192592593

Total Minutes/Frequency	78307.00	1291.0000	76296.00	1241.0000
Equipment Fault	0.03%	0.08%	0.00%	0.00%
Wind	0.19%	0.39%	0.00%	0.00%
Small Animal	0.20%	0.54%	0.16%	0.40%
Squirrel	0.11%	0.46%	0.01%	0.08%
Unknown Cause	0.09%	0.39%	0.00%	0.00%
Deterioration	0.04%	0.15%	0.00%	0.00%
Scheduled	1.15%	1.47%	0.15%	0.16%
Power Supplier	91.06%	54.69%	93.46%	56.89%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.22%	0.23%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.73%	0.39%	0.00%	0.00%
Lightning	0.11%	0.39%	0.00%	0.00%
Tree - Non ROW	6.06%	40.82%	6.22%	42.47%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number SOUTH POINT 17
 Substation Location Laudale Drive, Nicholasville, KY 40356
 Circuit Name and Number SOUTH POINT 134
 Circuit Location Grey Oak Lane
 Total Circuit Length (Miles) 4.3
 2021 Member Count 570
 5 Year Average Member Count 418
 Date of Last Trim 2020
 Date of Next Trim 2024

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
7.951567238	0.191557871	29.12982456	0.701754386

Total Minutes/Frequency	16604.00	400.0000	16604.00	400.0000
Equipment Fault	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	0.00%	0.00%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	7.59%	31.50%	7.59%	31.50%
Power Supplier	84.99%	34.25%	84.99%	34.25%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	7.43%	34.25%	7.43%	34.25%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number VAN_ARSDOLL 24
 Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
 Circuit Name and Number VAN_ARSDOLL 114
 Circuit Location Shakertown/Mcafee Ln
 Total Circuit Length (Miles) 129.1
 2021 Member Count 971
 5 Year Average Member Count 927
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
95.92618373	0.948281284	101.1431514	1.170957775

Total Minutes/Frequency	444488.00	4394.0000	98210.00	1137.0000
Equipment Fault	8.15%	8.63%	1.04%	1.06%
Wind	15.47%	4.76%	4.31%	1.41%
Small Animal	11.84%	20.35%	18.44%	46.17%
Squirrel	3.52%	2.55%	0.00%	0.00%
Unknown Cause	0.41%	0.48%	0.08%	0.09%
Deterioration	3.74%	2.09%	0.60%	0.44%
Scheduled	0.33%	0.68%	0.97%	2.29%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.08%	0.11%	0.14%	0.26%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	2.53%	1.98%	4.26%	3.87%
Ice/Snow	0.77%	0.77%	3.33%	2.90%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	8.46%	12.86%	7.47%	6.95%
Lightning	5.92%	7.99%	1.34%	0.97%
Tree - Non ROW	38.42%	36.07%	58.03%	33.60%
Large Animal	0.25%	0.32%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.12%	0.36%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number VAN_ARSDHELL 24
 Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
 Circuit Name and Number VAN_ARSDHELL 124
 Circuit Location Bohon
 Total Circuit Length (Miles) 41.1
 2021 Member Count 358
 5 Year Average Member Count 342
 Date of Last Trim 2019
 Date of Next Trim 2025

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
80.57651417	0.616370296	54.62290503	0.636871508

Total Minutes/Frequency	137656.00	1053.0000	19555.00	228.0000
Equipment Fault	2.52%	2.94%	1.71%	0.88%
Wind	10.06%	9.02%	0.00%	0.00%
Small Animal	7.14%	12.92%	8.42%	13.16%
Squirrel	1.30%	1.33%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	1.54%	2.85%	0.25%	0.44%
Scheduled	13.21%	17.85%	63.25%	58.33%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.21%	0.38%	0.00%	0.00%
Public Accident	1.08%	0.95%	1.34%	1.32%
Ice/Snow	46.08%	32.57%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	2.38%	3.51%	7.62%	7.02%
Lightning	10.85%	9.40%	2.18%	1.32%
Tree - Non ROW	3.16%	5.22%	15.24%	17.54%
Large Animal	0.05%	0.09%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.42%	0.95%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Scheduled outages. No corrections necessary at this time.

Substation Name and Number VAN_ARSDELL 24
 Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
 Circuit Name and Number VAN_ARSDELL 134
 Circuit Location Cornishville
 Total Circuit Length (Miles) 73.7
 2021 Member Count 469
 5 Year Average Member Count 448
 Date of Last Trim 2015
 Date of Next Trim 2022

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
224.6809681	1.272963534	203.9637527	1.938166311

Total Minutes/Frequency	502855.00	2849.0000	95659.00	909.0000
Equipment Fault	32.89%	21.02%	0.07%	0.11%
Wind	2.73%	1.61%	0.00%	0.00%
Small Animal	2.75%	5.90%	2.08%	2.53%
Squirrel	0.03%	0.07%	0.00%	0.00%
Unknown Cause	0.63%	1.93%	3.33%	6.05%
Deterioration	0.09%	0.21%	0.17%	0.22%
Scheduled	0.76%	2.56%	2.11%	5.17%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	10.53%	17.76%	48.06%	51.27%
Ice/Snow	11.22%	5.09%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	20.42%	19.16%	5.62%	9.24%
Lightning	16.29%	20.01%	38.56%	25.41%
Tree - Non ROW	1.65%	4.67%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Public Accident caused outages. No corrections necessary at this time.

Substation Name and Number WEST BERA 8
 Substation Location 5350 Walnutmeadow Rd., Berea, KY 40403
 Circuit Name and Number WEST BERA 134
 Circuit Location Wallaceton
 Total Circuit Length (Miles) 38.0
 2021 Member Count 479
 5 Year Average Member Count 477
 Date of Last Trim 2021
 Date of Next Trim 2027

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
173.3464186	1.440311733	332.6263048	2.075156576

Total Minutes/Frequency	413775.00	3438.0000	159328.00	994.0000
Equipment Fault	11.19%	22.72%	1.16%	3.32%
Wind	2.55%	2.12%	0.09%	0.20%
Small Animal	4.54%	7.10%	0.27%	0.60%
Squirrel	0.15%	0.29%	0.00%	0.00%
Unknown Cause	2.36%	4.01%	2.18%	4.23%
Deterioration	0.05%	0.09%	0.00%	0.00%
Scheduled	0.14%	0.20%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.47%	0.58%	0.00%	0.00%
Ice/Snow	26.59%	11.46%	1.00%	14.29%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	9.09%	6.86%	15.68%	10.97%
Lightning	1.65%	1.31%	0.09%	0.20%
Tree - Non ROW	41.11%	42.99%	79.40%	65.69%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.11%	0.26%	0.13%	0.50%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number WEST BERA 8
 Substation Location 5350 Walnutmeadow Rd., Berea, KY 40403
 Circuit Name and Number WEST BERA 144
 Circuit Location Walnut Meadow
 Total Circuit Length (Miles) 46.6
 2021 Member Count 239
 5 Year Average Member Count 238
 Date of Last Trim 2015
 Date of Next Trim 2022

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
190.6288833	0.937027708	524.2468619	2.556485356

Total Minutes/Frequency	227039.00	1116.0000	125295.00	611.0000
Equipment Fault	33.61%	23.30%	37.81%	25.20%
Wind	0.94%	1.79%	1.47%	3.11%
Small Animal	3.23%	6.09%	3.92%	6.38%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	1.52%	3.76%	1.27%	3.93%
Deterioration	4.26%	3.67%	0.00%	0.00%
Scheduled	0.27%	0.36%	0.43%	0.49%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	21.84%	20.88%	0.00%	0.00%
Ice/Snow	6.84%	8.96%	10.77%	15.22%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	6.67%	6.72%	9.66%	8.67%
Lightning	1.88%	4.93%	2.69%	6.38%
Tree - Non ROW	18.94%	19.53%	31.98%	30.61%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number WEST BERA 8
 Substation Location 5350 Walnutmeadow Rd., Berea, KY 40403
 Circuit Name and Number WEST BERA 154
 Circuit Location Dogwood
 Total Circuit Length (Miles) 45.4
 2021 Member Count 1249
 5 Year Average Member Count 1245
 Date of Last Trim 2015
 Date of Next Trim 2022

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
166.7332832	1.14361985	418.3867094	2.283426741

Total Minutes/Frequency	1037764.00	7118.0000	522565.00	2852.0000
Equipment Fault	9.21%	10.87%	4.62%	7.82%
Wind	1.88%	1.36%	0.00%	0.00%
Small Animal	3.62%	7.35%	1.40%	3.47%
Squirrel	0.02%	0.07%	0.00%	0.00%
Unknown Cause	2.03%	4.68%	2.07%	6.63%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.84%	1.33%	0.66%	1.33%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.01%	0.01%	0.00%	0.00%
Public Accident	15.09%	13.92%	0.70%	0.39%
Ice/Snow	23.13%	9.29%	39.59%	19.81%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	13.14%	11.24%	23.11%	22.12%
Lightning	5.94%	5.68%	11.22%	12.69%
Tree - Non ROW	25.10%	34.19%	16.63%	25.74%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number WEST NICHOLASVILLE 3
 Substation Location 398 Bass Pond Glen Dr., Nicholasville, KY 40356
 Circuit Name and Number WEST NICHOLASVILLE 144
 Circuit Location Keeneland/Paddock
 Total Circuit Length (Miles) 14.9
 2021 Member Count 593
 5 Year Average Member Count 585
 Date of Last Trim 2020
 Date of Next Trim 2024

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
88.05216342	1.093743873	87.78583474	1.350758853

Total Minutes/Frequency	257561.29	3199.3090	52057.00	801.0000
Equipment Fault	13.10%	6.00%	0.16%	0.12%
Wind	0.02%	0.03%	0.00%	0.00%
Small Animal	23.65%	38.11%	64.96%	74.66%
Squirrel	0.67%	1.09%	0.36%	0.25%
Unknown Cause	1.83%	2.78%	0.95%	0.87%
Deterioration	29.40%	20.25%	0.00%	0.00%
Scheduled	0.37%	0.31%	0.11%	0.12%
Power Supplier	18.29%	18.41%	0.00%	0.00%
Bird	0.09%	0.19%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	2.20%	1.88%	4.76%	1.00%
Lightning	1.59%	2.25%	0.00%	0.00%
Tree - Non ROW	8.77%	8.69%	28.70%	22.97%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Animal guards to be placed strategically.

Substation Name and Number WEST NICHOLASVILLE 3
 Substation Location 398 Bass Pond Glen Dr., Nicholasville, KY 40356
 Circuit Name and Number WEST NICHOLASVILLE 164
 Circuit Location Squire Lake
 Total Circuit Length (Miles) 6.4
 2021 Member Count 462
 5 Year Average Member Count 456
 Date of Last Trim 2019
 Date of Next Trim 2025

5 Year Average		2021	
SAIDI	SAIFI	SAIDI	SAIFI
35.77363253	0.64137065	41.97835498	1.04978355

Total Minutes/Frequency	81525.01	1461.6282	19394.00	485.0000
Equipment Fault	1.87%	0.96%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	28.12%	35.21%	5.05%	4.12%
Squirrel	0.14%	0.21%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	44.16%	30.79%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	2.19%	0.21%	9.19%	0.62%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	23.53%	32.63%	85.76%	95.26%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.



**DISTRIBUTION RIGHT-OF-WAY VEGETATION
MANAGEMENT 2022 PLAN/ 2021 PLAN REVIEW**

April 2022

Blue Grass Energy Vegetation Management Plan

2021 Review of Plan Implementation

Blue Grass Energy developed a formal plan to manage the maintenance of vegetation on distribution rights-of-way (ROW) in 2007/2008. The plans goals were established to provide excellent member service, maintain current tree related reliability, and look for opportunities to increase production and reduce program cost. These plans were continued and improved into 2021.

As stated in the previously submitted Vegetation Management Plan, the plan may be modified from time-to-time based on performance as measured by tree-related service reliability and evaluations of member satisfaction with service reliability. Specific reliability metrics may include Tree SAIFI, trends in customer minutes interrupted by tree-related causes and tree-caused primary interruptions per 100 line miles as internal benchmarks of program performance over time. A Tree-Caused Outage Report summarizes these reliability criteria and is regularly reviewed and monitored daily. Upon reporting of tree related outages, a field investigation is conducted to determine the root cause.

2019-2022 Vegetation Management Strategy

SCHEDULED MAINTENANCE AND CLEARANCE

Blue Grass Energy provides electric service to over 60,000 members through a network of over 4,800 miles of distribution line. Blue Grass Energy uses a cyclic approach to preventive vegetation management of its electric distribution ROW. Different circuits or portions of circuits may be scheduled on different cycles based on site conditions, sensitivity of the line to interruptions caused by trees or criticality of the line. The maintenance cycle for tree removal, tree pruning or brush control may be the same or different for a given scheduling unit. Following pruning and clearance operations, herbicide application is conducted after one full growing season.

As illustrated in Table 1, Blue Grass Energy completed 17 distribution circuits scheduled in 2021 for a total of 773 miles of line completed. In 2022, there are 29 distribution circuits, for a total of 768 miles scheduled for completion. The varying site conditions determine the cost and cause completed miles to vary by year.

Table 1. Blue Grass Energy R/W Miles Scheduled vs. Completed - Trimming

Maintenance Year	2019	2020	2021	2022
Scheduled	756	676	773	768
Completed	684	676	773	TBD

Of the 2020 & 2021 maintenance year mileage, 12 circuits consisting of 762 miles were identified for selective herbicide application in 2021. Only 302 miles were completed in 2021 due to contractor related labor shortages. Herbicide application consisting of 835 are scheduled for 2022.

This includes 546 miles from the 2021 trim circuits and 288 from herbicide work not completed in 2021.

Table 2. Blue Grass Energy R/W Miles Scheduled vs. Completed - Herbicide

Maintenance Year - Herbicide	2019	2020	2021	2022
Scheduled	697	979	762	835
Completed	697	979	302	TBD

RELIABILITY

In 2008, Blue Grass Energy developed and implemented an outage investigation process to better understand the cause of tree failures. The data was again used in 2021 to identify species failure rates and help plan future scheduled and non-scheduled work to eliminate potential outages. The investigation of tree related outages will continue through 2022 to collect data on major outage categories.

Historical Blue Grass Energy tree caused outages within the right of way are illustrated in Table 3.

Table 3. Number of Tree-Caused Outages within the ROW on the Blue Grass Energy System†

Year	2017	2018	2019	2020	2021
TOTALS	110	142	150	114	222

†Outages on primary conductor excluding major event days

2021 VEGETATION MANAGEMENT PLAN REVIEW

No Changes were implemented in 2020 to the ROW management plan. The “Distribution Right-Of-Way Vegetation Management Plan” Dated March 2020 reiterated in detail the processes that were built into the plan.

In 2021, 773 trim miles and 302 herbicide miles were completed. 24,512 diameter inches treated with tree growth regulator (TGR).

Listed below are some of the processes used in 2021:

1. Continuation of Formal Contractor Evaluation Program. Each contractor will be rated on nine qualitative categories such as customer complaints, quarterly mileage goals, exceptions/ omissions, quality/standards, tools/equipment, unscheduled interruptions/OSHA LWD, contractor cooperation & communication, crew professionalism, and data accuracy.
2. Yearly Revision of formal program policies and procedures and assurance of consistent implementation throughout the system to include additional detailed requirements.
3. Continued yearly revision of a 5-6 year maintenance cycle for the system based on collected field data. In areas where standard clearances cannot be consistently achieved (e.g., subdivisions), mid cycle assessments will be conducted, and cycles adjusted based on those findings. Recommended cycle lengths are guidelines.

4. Vegetation Management personnel maintain ISA Certified Arborist Utility Specialist certification.
5. Selective use of herbicides to control resprouting from the stumps of removed deciduous trees.
6. Continuation of formal herbicide spray program to control woody species following maintenance pruning.
7. Written notification of property owners of the intent to prune trees and requirement of written permission for “yard” tree removals. We always strive to not allow property owners to influence pruning clearances.
8. The crew labor and equipment complements were adjusted throughout the year to maximize cost effectiveness.
9. Revised and improved the formal work monitoring and completion process. Each circuit is 100 percent audited by ROW supervisory personnel to ensure specifications for clearance and quality are achieved.
10. Records were maintained of key aspects of the ROW vegetation management program to document program performance. This data provides information necessary for ongoing program management and circuit scheduling.
11. Meet requirements for Arbor Day Foundation Tree Line USA certification.

2022 VEGETATION MANAGEMENT PLAN

In addition to continuing the Distribution Right-Of-Way Vegetation Management Plans outlined for 2021 we intend to utilize the following key objectives in the upcoming year:

- Continue Formal Crew Field Audit Evaluation process, at the 100 percent level
- Continue to Uphold National Arbor Day Tree Line USA standards
- Continue to uphold ANSI A300 pruning and Z133 safety standards
- Utilization of vegetation management Best Management Practices as defined by the International Society of Arboriculture.
- Continue to evaluate and increase production and quality with established work force.
- Further inspection and reduction of unnecessary reactive maintenance
- Utilize multiple ROW vegetation maintenance contractors
- Continue with formal herbicide spray program to control woody species following maintenance pruning.
- Evaluate effectiveness of program for using tree growth regulators (TGR) in urban area yard trees and continue use of TGR’s in 2022.

Appendix

ROW VEGETATION MAINTENANCE CLEARANCE CYCLE SCHEDULING STRATEGY

The following table summarizes the Blue Grass Energy ROW vegetation maintenance scheduling strategy. Individual circuits may be accelerated or deferred based on assessment of field conditions and operating performance.

Circuit Description	Primary Cycle Length (Years)	Mid-cycle Inspection/selective Tree Maintenance (Years)
Feeder Multi-phase	5-6	2 to 3
Feeder Laterals (single-phase)	5-6	
Industrial Circuits	4-5	Annual inspection and selective maintenance